

Decimal Fraction Match

Connect tenths and hundredths to fractions.

GRADE 4 • 4.NS.5.c

4.NS.5.c "Write the decimal and fraction equivalent for a given model (e.g., $14 = 0.25$ or $0.25 = 14$; $1.25 = 54$ or 114 ; $1.02 = 102100$ or 12100).*"

NAME _____

DATE _____

PLACE VALUE PARTNERS

A decimal shows tenths or hundredths. Write a fraction with 10 or 100 as the denominator, then simplify if asked. For a decimal greater than 1, keep the whole number and change the decimal part to a fraction.

WORKED EXAMPLE

Write 0.68 as a fraction in simplest form.

1. 68 means 68 hundredths, so write $68/100$.
2. Divide 68 and 100 by 4.
3. $68/100 = 17/25$.

Answer: 17/25

PRACTICE 6 problems

1 Write 0.4 as a fraction with denominator 10.

ANSWER _____

2 Write 1.6 as a mixed number.

ANSWER _____

3 Write $37/100$ as a decimal.

ANSWER _____

4 Write $3/4$ as a decimal.

ANSWER _____

5 Write 0.09 as a fraction with denominator 100.

ANSWER _____

6 Write $2 \frac{35}{100}$ as a decimal.

ANSWER _____

APPLY IT Show your work

- 1** At the skate park, Jada rode 0.75 mile. Write 0.75 as a fraction in simplest form.

WORK SPACE

ANSWER _____

- 2** A game designer measured a path that is $1\frac{3}{10}$ meters long. Write the length as a decimal.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A science club's water gauge shows 2.08 liters. Write this number as a mixed number with hundredths. Then simplify the fraction part.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write 0.4 as a fraction with denominator 10.	4/10
2	Write 1.6 as a mixed number.	1 6/10
3	Write 37/100 as a decimal.	0.37
4	Write 3/4 as a decimal.	0.75
5	Write 0.09 as a fraction with denominator 100.	9/100
6	Write 2 35/100 as a decimal.	2.35

PART 2 • APPLY IT

1. **3/4** 0.75 is 75/100. Divide the numerator and denominator by 25 to get 3/4.
2. **1.3** Keep the whole number 1. Three tenths is 0.3, so the decimal is 1.3.

CHALLENGE

2 8/100, which simplifies to 2 2/25

Accept equivalent fractions when the problem does not name a required denominator or ask for simplest form. For the challenge, require both the hundredths form and the simplified mixed number.